

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111  
Serial Number: 09/847061  
Filing Date: May 1, 2001  
Title: POLYHYDROXY GLYCOPEPTIDE DERIVATIVES

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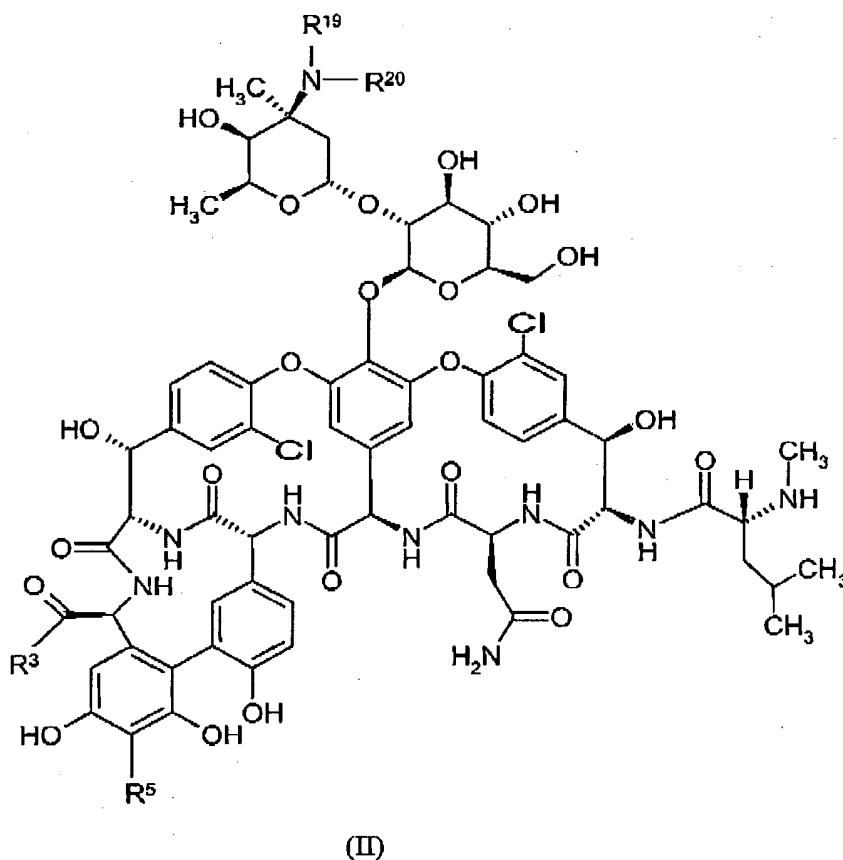
### Amendments to the Claims

This listing of the claims will replace all prior versions, and listings, of the claims in the application.

#### Listing of the Claims

Claims 1-6 (Canceled).

Claim 7. (Currently Amended) A glycopeptide of formula II:



wherein:

$R^3$  is -OH;

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$R^5$  is hydrogen;

$R^{19}$  is hydrogen;

$R^{20}$  is  $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{Y}-\text{R}^b-(\text{Z})_x$  or  $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{R}^{17}$ ;

$R^{17}$  is hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, aryl, heteroaryl, or heterocyclic;

Y is selected from the group consisting of oxygen, sulfur,  $-\text{S}-\text{S}-$ ,  $-\text{NR}^c-$ ,  $-\text{S}(\text{O})-$ ,  $-\text{SO}_2-$ ,  $-\text{NR}^c\text{C}(\text{O})-$ ,  $-\text{OSO}_2-$ ,  $-\text{OC}(\text{O})-$ ,  $-\text{NR}^c\text{SO}_2-$ ,  $-\text{C}(\text{O})\text{NR}^c-$ ,  $-\text{C}(\text{O})\text{O}-$ ,  $-\text{SO}_2\text{NR}^c-$ ,  $-\text{SO}_2\text{O}-$ ,  $-\text{P}(\text{O})(\text{OR}^c)\text{O}-$ ,  $-\text{P}(\text{O})(\text{OR}^c)\text{NR}^c-$ ,  $-\text{OP}(\text{O})(\text{OR}^c)\text{O}-$ ,  $-\text{OP}(\text{O})(\text{OR}^c)\text{NR}^c-$ ,  $-\text{OC}(\text{O})\text{O}-$ ,  $-\text{NR}^c\text{C}(\text{O})\text{O}-$ ,  $-\text{NR}^c\text{C}(\text{O})\text{NR}^c-$ ,  $-\text{OC}(\text{O})\text{NR}^c-$ ,  $-\text{C}(=\text{O})-$  and  $-\text{NR}^c\text{SO}_2\text{NR}^c-$ ;

each Z is independently selected from hydrogen, aryl, cycloalkyl, cycloalkenyl, heteroaryl and heterocyclic;

$R^b$  is selected from the group consisting of a covalent bond, alkylene, substituted alkylene, alkenylene, substituted alkenylene, alkynylene and substituted alkynylene, provided  $R^b$  is not a covalent bond when Z is hydrogen;

each  $R^c$  is independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, aryl, heteroaryl, heterocyclic and  $-\text{C}(\text{O})\text{R}^d$ ;

each  $R^d$  is independently selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, aryl, heteroaryl and heterocyclic; and

x is 1 or 2;

or a pharmaceutically acceptable salt, stereoisomer, or prodrug thereof salt or a stereoisomer thereof.

Claims 8-12 (Canceled).

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Claim 13. (Previously Presented) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of Claim 7.

Claim 14. (Previously Presented) The pharmaceutical composition of claim 13, wherein the composition further comprises a cyclodextrin.

Claim 15 (Canceled).

Claim 16. (Withdrawn) A method of treating a mammal having a bacterial disease, the method comprising administering to the mammal a therapeutically effective amount of a glycopeptide of claim 7.

Claim 17. (Withdrawn) A method of treating a mammal having a bacterial disease, the method comprising administering to the mammal a therapeutically effective amount of a pharmaceutical composition of claim 13.

Claim 18. (Previously Presented) The glycopeptide of Claim 7, wherein  $R^{20}$  is  $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{R}^{17}$  and  $\text{R}^{17}$  is alkyl.

Claim 19. (Previously Presented) The glycopeptide of Claim 7, wherein  $R^{20}$  is  $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{R}^{17}$  and  $\text{R}^{17}$  is aryl.

Claim 20. (Currently Amended) The glycopeptide of Claim 7, wherein  $R^{20}$  is  $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{Y}-\text{R}^b-(\text{Z})_x$  and Y is an NH- group.

Claim 21. (Previously Presented) The glycopeptide of Claim 7, wherein  $R^{20}$  is  $-\text{CH}_2-\text{CH}(\text{OH})\text{CH}(\text{OH})\text{CH}_2-\text{Y}-\text{R}^b-(\text{Z})_x$  and Y is oxygen.

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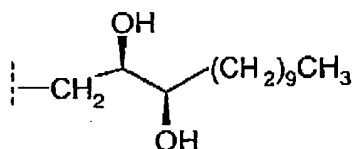
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Claim 22. (Previously Presented) The glycopeptide of Claim 7, wherein R<sup>20</sup> is -CH<sub>2</sub>-CH(OH)CH(OH)CH<sub>2</sub>-Y-R<sup>b</sup>-(Z)<sub>x</sub> and Y is sulfur.

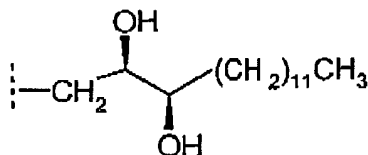
Claim 23. (Previously Presented) The glycopeptide of Claim 7, wherein R<sup>20</sup> is -CH<sub>2</sub>-CH(OH)CH(OH)CH<sub>2</sub>-Y-R<sup>b</sup>-(Z)<sub>x</sub> and R<sup>b</sup> is alkylene.

Claim 24. (Previously Presented) The glycopeptide of Claim 7, wherein R<sup>20</sup> is -CH<sub>2</sub>-CH(OH)CH(OH)CH<sub>2</sub>-Y-R<sup>b</sup>-(Z)<sub>x</sub> and Z is hydrogen.

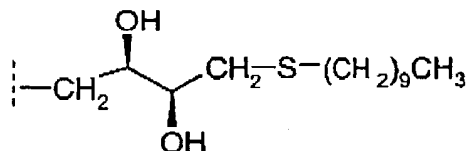
Claim 25. (Previously Presented) The glycopeptide of Claim 7, wherein R<sup>20</sup> is a group of the formula:



Claim 26. (Previously Presented) The glycopeptide of Claim 7, wherein R<sup>20</sup> is a group of the formula:



Claim 27. (Previously Presented) The glycopeptide of Claim 7, wherein R<sup>20</sup> is a group of the formula:



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Claim 28. (Previously Presented) The glycopeptide of Claim 7, wherein R<sup>20</sup> is a group of the formula:

